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Alexandra, Vegens 22113-1450

APPLICATION NO	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.
10/725,158		12/01/2003	Hassan E. El-Shall	5853-479	1777
38448	7590	06/02/2004		EXAM	INER
AKERMAN	N SENTE	RFITT		HRUSKOC	L PETER A
P.O. BOX 31	188				
WEST PALE	M BEACH	I, FL 33402-3188		ARTUNIT	PAPER NUMBER
				1724	

DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/725,158	EL-SHALL ET AL.		
		Examiner	Art Unit	_	
		Peter A. Hruskoci	1724		
riod f	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address		
THE - Extended - If th - If No - Falls - Any	IORTENED STATUTORY PERIOD FOR RE- MAILING DATE OF THIS COMMUNICATION reviews at time may be available under the powdersor of 37 CF \$15 (4) (MONTHS feem the making blade of this communication as paned for righty specifies above is less than thisty, (30) days, re- lated to righty within the set or extended particle for righty will be to the proper of the righty is specified above. The amounts statute by a 10 to sighty within the set or extended particle for righty will by a 10 to sighty within the set or extended particle for righty will by a 10 to sighty within the set or extended particle for righty will be 10 to sight within the set or extended particle for righty will be 10 to sight within the set or extended particle for righty will be 10 to sight within the set or extended particle for a 10 to set of the set o	DN: R 1.136(a). In no event, however, mey e a reply within the statutory minimum of this statut of apply and will expire SK (6) MOI Multis, resume the application to become A	reply be limely filed by (30) days will be considered limely. (THS from the mailing date of this communication, ANDONER JS U.S. G. S. T.)		
atus					
1)⊠	Responsive to communication(s) filed on @	11 December 2003.			
2a)[This action is FINAL. 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allo	owance except for formal met	ers, prosecution as to the merits is		
	closed in accordance with the practice und	ler Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.		
sposit	ion of Claims				
4)⊠	Claim(s) 1-13 is/are pending in the application.				
	4a) Of the above claim(s) is/are with	drawn from consideration.			
5)[Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-13 is/are rejected.				
7)					
8)[Claim(s) are subject to restriction and/or election requirement.				

closed	in	accor

4)⊠	Claim(s) 1-13 is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)[Claim(s) is/are allowed.
6)⊠	Claim(s) 1-13 is/are rejected.
7)□	Claim(s) is/are objected to.

Application Papers

9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Ackno	wledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)∐ Ali	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

stachment(s)	
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)
) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mall Date
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	 Notice of informal Patent Application (PTO-152)
Paper No(s)/Mail Date .	6) Other:,
	-,

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this trite, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/54400 El Shall in view of Kopyleva et al. 5.824,132. El Shall disclose (see pages 3 and 9-11) a method of treating spent alkaline pulping liquor substantially as claimed. The claims differ from El Shall by reciting that the phosphoric acid is generated by acidulating a phosphate containing material. Kopyleva et al. disclose (see col. 1 line 15 through col. 3 line 65) that it is known in the art to generate phosphoric acid by treating phosphate rock with sulfuric acid. It would have been obvious to one skilled in the art to modify the method of El Shall by utilizing the recited acidulating step in view of the teachings of Kopyleva et al., to aid in generating phosphoric acid for treating the black liquor. With regard to claim 13, it is submitted that the solid products produced from the use of the phosphoric acid of Kopyleva et al. in the method of El Shall are considered patentably indistinguishable from the solid products recited in the instant claims.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/54400 El Shall in view of Kopyleva et al. 5,824,132 as above, and further in view of Kurple 5,034,094. The claims differ from the references as applied above by reciting a step of causticizing the claimfied liquor with calcium oxide. Kurple disclose (see col. 2 line 1 through col. 4 line 60) that it is known in the art to add ealcium oxide to a residual black liquor solution that has been treated with phosphoric acid, to aid in precipitating calcium phosphate from the

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solution. It would have been obvious to one skilled in the art to modify the references as applied above by utilizing the recited causticizing step in view of the teachings of Kurple, to aid in precipitating calcium phosphate from the black liquor. The specific calcium phosphate precipitated would have been an obvious matter of process optimization to one skilled in the art, depending on the specific black liquor treated and results desired, absent a sufficient showing of unexpected results.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is (571) 272-1160. The examiner can normally be reached on Monday through Friday from 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (foll-free).

> Peter A. Hruskoci Primary Examiner Art Unit 1724

5/29/04